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 Liew, Choong-Chin

10 <120> Method for the Detection of Gene Transcripts in Blood and Uses
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 <151> 2000-01-04

25 <150> US 60/115,125
 <151> 1999-01-06

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25 gaaaaantt tccggggggc ccacccggga agggntnccg ggaaaggg 168

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30 <212> DNA
 <213> Human

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 cccacattc cattttaat atatactgtg ctttacaat attataatat gtttaaat 180

40 atgtcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc 240
 tttgaatata tatttagttt ttatgtgg taggaaaatc aaagccagag ggagtagaaa 300

caaaatttgt gatttctaa atacttctg gctgcaggg aaaaaaccacg tcccaggcga 360

45 agtcctacct aatttgatga taaaattaca tggaagggat tcttgtggc atgaggacct 420

accaagatgg tcaacaga 438

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15 aaagggggaa ggccccaaa accggggggg gggnaaaaag gtgggttcc ccctttcc 180
aattcccaaa accaattcc aaaaggnaaa ccaaccntc ccaaaatggg aaagg 235

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45 caaattgggg ggnaaaccaa attaagggg ggaagggggg gncccccccg ggaaaggccc 180

aaggggggaa aattttccg ggggtggtn ggggaacca attaagggg ggggcccccg 240

ggggggttcc cttgggccc ttttcctt tggtnaaaa aaaaaaacccttg 294

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15

ctgtacttga actctaaaac tggggagaa actcagtgc taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

20

attcctggg ccttaggaacc ctcatcaccc tcataccaaac gtcaacccag atcttcattt 300

ccataaacag cactccctca ggccctgccc tgacacaggc atagactgatc atgtggatt 360

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tttaggcggc accccaacaa caccaggccc tactttcc aaggncgggg aagccatgg 180

45 gttctggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

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242

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tctcagctca ctgcaaccc tc cacctctcag gagaattgct gaacctggga ggcggaggtt 120
15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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ataatggaag atagctntga ggatnaacnc tggtnaggg 100

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cggaaggcc ntggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggccccccc 120

15

aaggggggtg ggaaagagcc aaatttctt gggaaanaac gcccccttgg ggaaaanaag 180

gccaaccacc ttcaacanc ccccaangcg nggaagccat ttcttgg 227

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30

ggaagaattt tatgtgggag ttttaatgg ttcatttca ttggctataa ctcatgttaca 180

aggagaaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240

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acgctcttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct 240
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45 ttgccgggaa gtcagcagtc gcttttccc ggncaagcc tcgaactcac cancctgtct 360

ggattaatta gacagcaaga cgcttgcggc cccttggcg cgaacgaacn ncgaaaagga 420
cttcgcgcggc ccgttcttt gggggccaa taccggggcn cggggaaaac ccgngggng 480
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45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccatgt gaaggggtt aatattcctc 240
cacttgccat gcgtgtaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
5 tggcgccag cagggcgcc cttcgggcca aaccgaacct caggtcanac ttccaagaaa 360
agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaac ccaccctngg gcccaaacaa aaacttaaaa acccccccatttcntncccc 180

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ganggtcgnn aanttaggnt tccagcctgc gncacngcca 100

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30 ggtgctcctg cgtttggact gtgcaggcct ctcctatgct gatgcgttc cccactcctg 180
agctaatttc tgctctgctc cttctgtgac atgtggcagc gtggaaata gccactgtcc 240

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5 actagattt actgttagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt 180
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 gagatgagat aaaatgagat gaaatgaagt gaaatgaaat gaantcctga aattgacntg 180

 30 agatgaactg agataaaatg ntgagatgaa ntgatgagaa gaaatgagat gaaatgagat 240
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 tgaantgaaa tgaataatg aaataatgac ctgagatgan atgaantgat gaactgatga 360

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 35 30 tgntagatga nnngntgctc ncccttgngg ctnacaaatt ccancacnt tggggcngc 600
 agccnttaag ancactntt ttgggttgcg ctntggatg aattacnaat agnntgttt 660
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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgccaa 180

gaagagtc ttgttcattta ttggccca aaccctctaa tcccttgta atttatgtca 240

25 agaggaacag ctcttggac actggaaaac cgtgagagag taagattac acccttaggg 300

gcctaatacg agccaccatt aagaaagcgt tcgctccaca cccactaccc aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctcccttgca taagccctgc gttggattat atccctgcact 480

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 ggatttgggg ttagaggtt caattgcctt ttatggtaa gagaaaggcctt ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtcaa ggggaggtt aactctgcac gcaagagcct 240
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 25 <213> Human

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 aggagaattt cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
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 40 <213> Human

<400> 58
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 45 acctggtcac cgagttgcga accagccctcc aatatgttgc accctgtact ctctaaaaat 120

caaattcacccg gcatggagat tgccctgtg gtcccaaaat actcgggctg ggacacgatg 180
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5 agagcgagac tccatctcta at 262

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10 <212> DNA
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cccgaaaaag gggtatccgg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
20 aaccggccgg ggttttata caaactggga acccactttt gaaaaattttt ggcctttga 240
tctgggatgg gaatatgagt ttttatacat ttcatttct ttggccaa aggcccggtt 300
aagtattccc ccccgaaaaa ctttacaaa aaggcggtt taaaagctt ttggccccc 360
25 ctagggaaattttaacac ctaaaaaccc ctgtttccct taaagggcg ttcttaattt 420
tggggcgcc 430

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<212> DNA
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40 tatcatgtgt aagcccatct cctggggagg ctaacatact accatctcca aggagaggca 180
tgattccgaa tcacccacag acagctcgat caccatacgt atcaccacac atatatacc 240
45 tctaagactt gctagaaaca accaccatct ttgatgctt atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

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<211> 515
<212> DNA
<213> Human

10 <400> 61
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aataatcagg caaatcccta agaataaggg caattaagga tgactagccc tacaagatt 180
15 taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240
aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300
20 agaaaaagaag aattatttca taaacccttgt tggaaatggct aggcaatcat ctggaaaaaa 360
atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgtat 420
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25 gtcttctaaa atatatgact ttatgaattc tgact 515

30 <210> 62
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tggcatttt tatggtctaa atatagaatg accaatgcct cttagaacaaa ctgacctgg 240
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45 ttgttaaaa ttgatataatt gatataaaa acttcctttg ccagtgttgg tggcacacgc 360

cttaatccc agcacttagg aggcagaggc agggtgatt tctgaatttgc agggcaggct 420
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5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540
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15 <213> Human

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20 taatgcgaat atacttcctc ttctttgc atggcttgc ccagcctctg caatactgat 120
gaacacatgc tgaagatcat ctaactcaat atggcgata tttctatgtc ttgctgccc 180
ggacatagga caacttcgtc gctcaactgt tctaacatataaatgctggc gtaggtggag 240
25 aactactgca catatactct tactcgagg ctgaggcacg aggatcactt g 291

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30 <211> 309
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<400> 64
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tatatttcaa atgtcttgc aacagtggtt accttgcctt atccttagct atacgtctcg 180
40 aggcacattt ttcctctatg ccccgctacg ctttgcctt gagctggcg gtatctatata 240
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45 ctgattaga 309

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5 <213> Human

<400> 65
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aggatggaa tggactcgaa gggatggaa tggaatggat tcgaatggaa aggaatggaa 180
tggactcaa aggaatggaa tggaatggac tcaaattggaa tggactcgaa ttgaatgaaa 240
15 tgaaatggaa tagactcgaa tggaatggaa cgaaattt 278

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<400> 66
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30 atagcttagta aactccccct gt 142

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<211> 286
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35 <213> Human

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attttttcc caacaaatttgcattcatgtt atagaataatgtt ctgactaaga ctacttagcc 180
ccacattttt ttctacttgc tccaaatgtt ctaacaataatgtt ggaagctttt gcttgctccc 240
45 caaagcttcca ttcccttgc agcagaatgtt taatattactt tcattttttttt 286

5 <210> 68
 <211> 179
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10 <400> 68
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 tttgaattt taaaactgtctt ctgggtgggtt gtgggtgccat ccaagagcat gtgttcatgtt 180
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40 ctcaatttctt gcatgagaaa aaaggtggac 390

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10 gatgacataa aatgagatga aatgagatgt aatgatgaa tgagatgaga taaaatgaga 120

· taaaatgata gatgagataa aatgatgata taaaatgatg agatgaatga tgagatgtg 180

15 agatgaatga taaaatgaaa taaaatgatg agatgtgaa atgaaatggt gagatgaaat 240

gatgagatga aatgaaatag taaaatgaaa ttgaaataaa atcgaatgaa gagatgaaat 300

gatgagatga taaaattgat gaaatgatgaa gatgtgatgaa tgagatgaga 360

20 tgagatgaca taaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420

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25 g 481

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15 ngacgcgccg tacaggnta attatggnan cttacatggn aaaggggcan ctcaatgtcc 120
cacag 125

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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120

35 aaatgaatct gagatgaaat gagatgaaa ntgatacgaa aaatgatata aaaaatatga 180
cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240

40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360
catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420

45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

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 <223> n is a, c, g, or t

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 gaaatgagat gaaataaaat aatgaaatga tgaatataatg aatgaaaat gagatggaa 180
30 tcatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatg gaaaaatga 240
 gatgaaatga tgagatgaga tgaatatga tgaggatgaa tgacataatg aatgaaatga 300
35 tgaatggaa taatgaaatg gaaatgatga gctgagatgc aatgaggatg aatgagatg 360
 aatgatgaaa tcatgagatg aatgatgaa atgaaataat gaaatgagat gaaataaaat 420
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40 atgagatgaa atgatgaaat 500

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<223> n is a, c, g, or t

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25

<210> 75

<211> 155

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<213> Human

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<400> 75

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35 tgagatgaca tgaaataatg aaacgaaatt gaaat 155

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40 <211> 367

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<223> n is a, c, g, or t

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cgcctatgaaa ttctgctcg attagcttac gttgttgga tagaggccaa acaaggctgt 180

45 tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300
aaatatgagg ggtggcaagg tttgcctgt tacattctca aatggaagca aatttagatat 360
5 gtcattg 367

10 <210> 77
<211> 257
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30 tcagtgttg gggtttattt taaaagaat agggtgccac cagatgtct ttagtggagg 180
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aggcccttc ttagtct 257

35 <210> 78
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40 <213> Human

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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180

30 ttttcttta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgcn 240

canngtctnt gacgntgtga tgcatacgnt tggcagagn gancaatang tgngcatatg 300

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 40 atgagatgat gaaataaaaat gatgaaatga gatgtatgat gatgaaatga ngagatgaaa 180
 40 ttagatgatg agatgacatg aaataatgaa aataatgaaa tcgaaatgag atgagaagat 240
 45 acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatga aaagagttga 300
 45 tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag 360

| | | |
|----|--|-----|
| | atgaaatgag gtgaaatgaa attagatgaa acgtaatgag atgaaatgac ataatgaaat | 420 |
| | gaaaaaaatga aatgaaataa taaaatgagg taaaattaaa tgatgatgaaatg | 480 |
| 5 | atgaaatgaa ataatgaaat ggaaatgaaa tggaaatgat gagatgaaatg atgagatgaa | 540 |
| | atgatgatgat gagatgtatt gatgagagga aatgatgaga taaaatgaaa tgagatgaaa | 600 |
| 10 | tgaatgagat gaaatgaaat antggaangg aaattgattt gngatttgg atgaaatgag | 660 |
| | ntaaatgnga tgaattatg atgagatgaa atgntgaaatg ccgggggtgnn tgagatgaaat | 720 |
| | tgagttgaac cctgngatga atgaagattt nntgaaatggt ggntgaaatgt taaaatggntt | 780 |
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| 25 | atgaaatgat attgaaatga aattgaaaga tgagatgatg agatgaaatg tgaaatgtt | 120 |
| | gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa | 180 |
| 30 | tggaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata | 240 |
| | atgaaatgaa aatgaaatgg aatgatgag atgagaagaa atgatgagat gatgagat | 300 |
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30 aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggtgaa attaaatgag 240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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tgaacactgt aaaaatgaac tttgaaacag ttgggttagga cccaaacaga aaatgatgtA 300
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aaaaatagat aatggtaatc caagcacgtatc ggttagccatc actctaattt ctttgggtt 180
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